

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2005/005100

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl⁷ C23C28/00, B22C1/00, 9/06, B22D17/22, C23C24/08

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl⁷ C23C28/00, B22C1/00, 9/06, B22D17/22, C23C24/08

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Jitsuyo Shinan Koho 1922-1996 Jitsuyo Shinan Toroku Koho 1996-2005
Kokai Jitsuyo Shinan Koho 1971-2005 Toroku Jitsuyo Shinan Koho 1994-2005

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y A	JP 08-229657 A (Kobe Steel, Ltd.), 10 September, 1996 (10.09.96), Par. Nos. [0010] to [0028] (Family: none)	1-9 <u>10-13</u>
Y A	JP 2001-300711 A (Olympus Optical Co., Ltd.), 30 October, 2001 (30.10.01), Par. No. [0002] (Family: none)	1-9 <u>10-13</u>
Y A	JP 2001-342530 A (Toshiba Machine Co., Ltd.), 14 December, 2001 (14.12.01), Par. Nos. [0008] to [0017] (Family: none)	4,8 <u>10-13</u>

 Further documents are listed in the continuation of Box C. See patent family annex.

- * Special categories of cited documents:
- "A" document defining the general state of the art which is not considered to be of particular relevance
- "B" earlier application or patent but published on or after the international filing date
- "I," document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

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"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

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"&" document member of the same patent family

Date of the actual completion of the international search
16 June, 2005 (16.06.05)Date of mailing of the international search report
05 July, 2005 (05.07.05)Name and mailing address of the ISA/
Japanese Patent Office
Facsimile No.Authorized officer
Telephone No.